

ABSTRACT

A moving body is linearly moved by a rotary type supersonic motor and an output transmission means such as a cam and a pinion rotating in cooperation with a rotor of the supersonic motor, and a pressurizing mechanism for imparting a contact pressure is provided between the moving body and the output transmission member to realize a linear motion mechanism with a supersonic motor. Thus, it is possible to perform a fine feed and a rough feed with high precision without any backlash and it is possible to form a linear motion mechanism with a high rigidity which is hardly affected by an external vibration or the like.

Also, since a compact and high power supersonic motor is used, it is possible to miniaturize and thin the overall equipment, and to form a linear motion mechanism that is not affected by magnetic effect and does not affect the others. Also, the power is not consumed during the mechanism is not in operation.

Accordingly, it is possible to realize a compact linear motion mechanism with a supersonic motor that may perform the high precision positioning in a low power consumption, and electronic equipment using the same.